

LED 75

User Manual

Collaboration Touch Screen and Interactive Display

Please properly keep the manual for further reference.

Welcome:

Thanks for purchasing this product. Please read the instructions carefully before using this product.

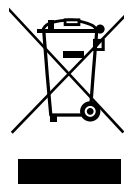
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The symbol of the crossed out wheeled bin indicates this product should not be placed in municipal waste. Instead, dispose of waste equipment by taking it to a designated collection point for electrical and electronic equipment recycling.







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About This Document






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This document describes multiple functions, instructions, and notes about the product. Symbols are used in this document to indicate operations that need particular attention. The symbols are defined as follows:

 NOTE	Provides additional information to supplement operation in the main text.
 TIP	Provides tips for operation.
 CAUTION	Indicates a potentially hazardous situation that, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.
 WARNING	Indicates a hazard with risk that, if not avoided, could result in death or injury.

Safety Instruction

For your safety, please read the following instruction before you use the product. Serious injury or property damage may be caused by improper operations. Do not try to repair the product on your own.

 WARNING	
	<p>Disconnect the product from the power supply immediately if major failures occur.</p> <p>Major failures include the following:</p> <ul style="list-style-type: none"> • Smoke, peculiar smell or abnormal sound is discharged from the product. • No image or sound is displayed, or the image error occurs. • Where the mains plug or an appliance coupler is used as the disconnect device the disconnect device shall remain readily operable. <p>In the preceding scenarios, do not continue to use the product. Disconnect power supply immediately and contact professional staff for troubleshooting.</p>
	<p>Do not drop any liquids, metal, or anything combustible onto the product.</p> <ul style="list-style-type: none"> • If any liquids or metal are dropped onto or into the product, power off the product and disconnect the power supply. Then contact professional staff for solutions. • Pay attention to children when they are close to the product. <p>Put the product on a stable surface.</p> <p>An unstable surface includes, and is not limited to, an inclined plane, a shaky stand, desk or platform, that might cause the product to turnover and be damaged.</p>
	<p>Do not open the panel or change the product on your own.</p> <p>High voltage components are installed in the product. When you open the panel, high voltage, electric shock, or other dangerous situations may occur. If inspection, adjustment, or maintenance is required, contact the local distributor for help.</p>
	<p>Use the specified power supply.</p> <ul style="list-style-type: none"> • To prevent the product from being damaged, do not use any types of power cables other than the one provided with the product. • Use a three-wire socket and ensure that it is properly grounded. • Pull out the power plug from the socket if the product is not used for a long period. <p>Clean the dust and metal on the power plug regularly.</p> <ul style="list-style-type: none"> • Fire or electric shock may be caused if the product is powered on while you are cleaning. • Pull out the power plug before cleaning it with a dried cloth.

⚠ WARNING



Do not put items on the top of the product.

- Do not put items, such as a container for liquid (a vase, flowerpot, cosmetics or liquid medicine) on the top of the product.
- If any water or liquid is spilled on the product, the product may short circuit and cause fire or electric shock.
- Do not walk on or hang any items on the product.



Do not install the product in an improper place.

- Do not install the product in humid places, such as the bathroom, the shower room, near windows, or outdoor environments that experience rain, snow or other harsh weather. Avoid installation near hot spring vapor. The preceding environments may cause faults in the product or electric shock under extreme conditions.
- Do not put an exposed fire source, such as a lit candle, on the product.



Pull out the power supply during thunderstorms.

- Do not touch the product during a lightning storm to avoid electric shock.
- Install or place components that supply high enough voltage to cause personal injury out of the reach of children.



Do not touch the power cable with wet hands.

⚠ CAUTION



Do not install the product in high temperature environments.

- Do not install the product near a heat source, such as a radiator, a heat reservoir, a stove or other heating products.
- Do not expose the product to direct sunlight, which may cause high temperatures and subsequent faults in the product.



For transport:

- Pack the product for transport or maintenance by using the cartons and cushioning material provided with the product.
- Vertically move the product during transport. The screen or other components are easily broken if the product is moved by an improper way.
- Before you move the product, disconnect all external connections and separate all toppling preventing products. Move the product carefully to prevent it from being hit or squeezed, especially the screen, which may cause injury if broken.



Do not cover or block up any vents on the product.

- Any overheated components may cause fire, damage the product, and shorten the service life.
- Do not lay the product down in a way where the venting surface will be covered.
- Do not install the product on carpet or cloth.
- Do not use a cloth such as table cloth to cover the product.

CAUTION



Keep the product away from the radio.

The product complies with the international EMI standard to prevent radio interference. However, interference may still exist and causes noise in the radio. If noise occurs in the radio, try the following solutions.

- Adjust the direction of the radio antenna to avoid the interference from the product.
- Keep the radio away from the product.

Use the battery correctly.

- Galvanic corrosion, electric leakage, and even fire may be caused by improper battery usage.
- It is recommended to use the designated type of battery and install the battery by the correct electrodes (positive and negative).
- Do not install and use a new battery with a used one.
- Take out the battery if the remote control is not used for a long period.
- Do not expose the battery to overheated environments, such as sunlight or heat sources.
- Dispose of the used battery based on your local regulations.

Do not damage the power cable.

- Do not damage, change, twist, bend, or forcibly drag the power cable.
- Do not put weights (such as the product itself) on the power cable.
- Do not forcibly drag the cable when you pull out the power plug. If the power cable is damaged, please contact the local distributor to repair or replace it.
- The power cable in the accessory box is for this product only. Do not use it on other products.

Additional advice:

- Use the product in an environment with comfortable lighting. It is harmful to your eyes to watch in a too bright or too dark environment.
- Relax your eyes watching for a period of time.
- Keep sufficient distance from the product to protect your eyes and prevent eyestrain.
- Adjust the volume to an appropriate level, especially at night.
- Use amplifier equipment as the audio input source with caution. If you must use amplifier equipment, the input power should not exceed the maximum of speaker power. Otherwise, the speaker can become overpowered and damaged.

Parts and Functions

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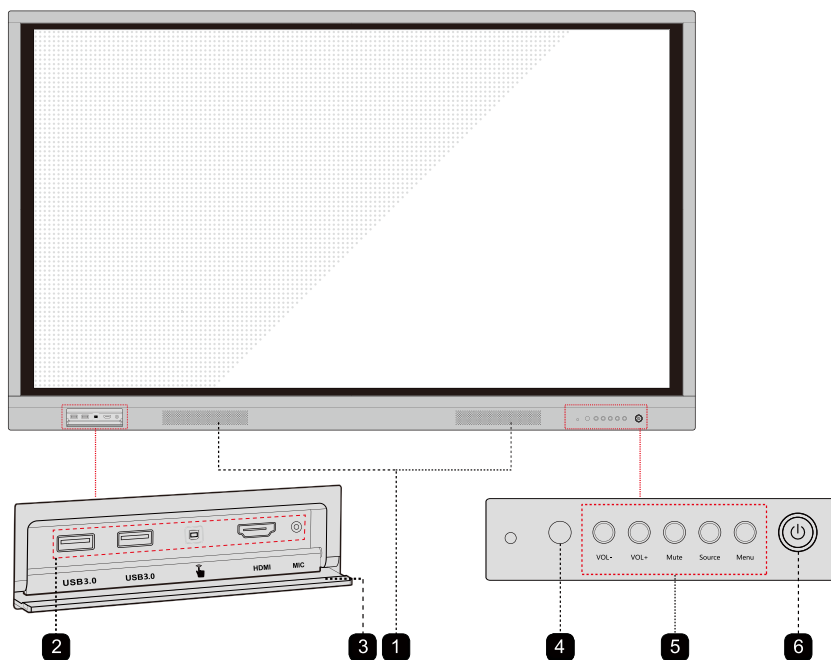
Thank you for choosing interactive touch screen. As our latest independently developed and produced human-machine interactive products, Under no signal, if there is no operation, the interactive touch screen will automatically shut down. The interactive touch screen are multi-functional teaching displays for interactive teaching, digital demonstration, multi-media presentation and touch operations. They are well designed and produced to meet needs of education applications, and provide a user-friendly experience, digital intelligent control as ideal apparatus for modern education.

Features:

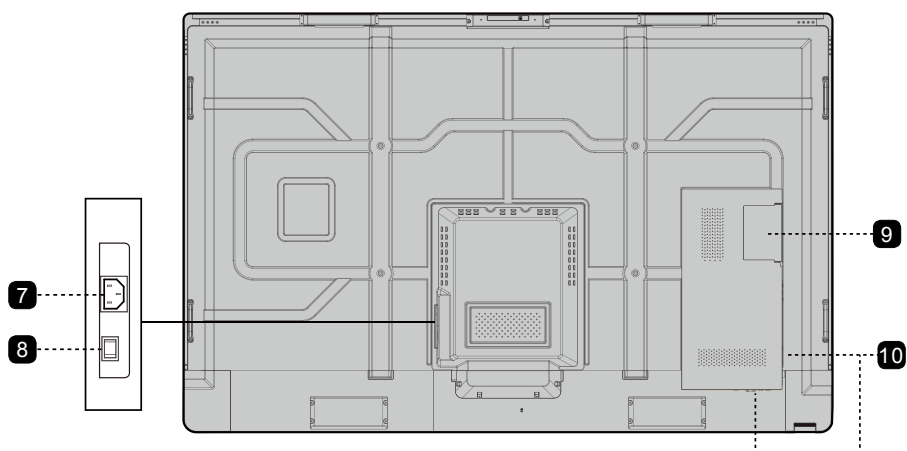
- Specially designed for teaching systems.
- Adopt advanced infrared array scanning and sensing technology, HID driver-free, meaning the product is activated soon after it is powered on.
- Multi-signal sources can be switched by touching the screen.
- A special button is set to adjust the brightness with no impact on watching and save up to 50% energy.
- Support front-facing high-power amplifiers.
- When the screen display function is disabled, the product can still play audio to save energy.
- High brightness and contrast display to ensure clear display under straight light or in outdoor environment.
- If there is no signal and no operation is performed, the interactive touch screen will automatically shut down.

Parts

Front View



Rear View



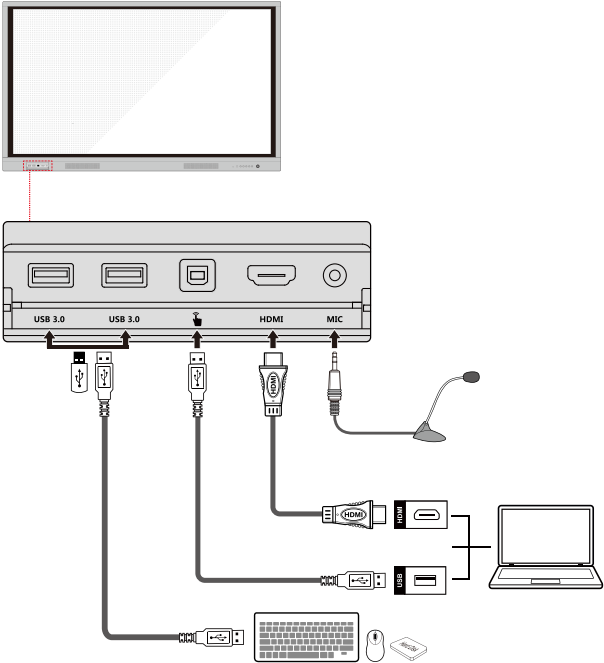
1	Speakers	6	Power On/Off
2	Front Ports	7	Power Supply Plug
3	Front Ports Cover	8	Power Switch
4	Remote control receiver	9	Internal PC Port (OPS)
5	Front Buttons	10	Rear Ports


Ports

CAUTION

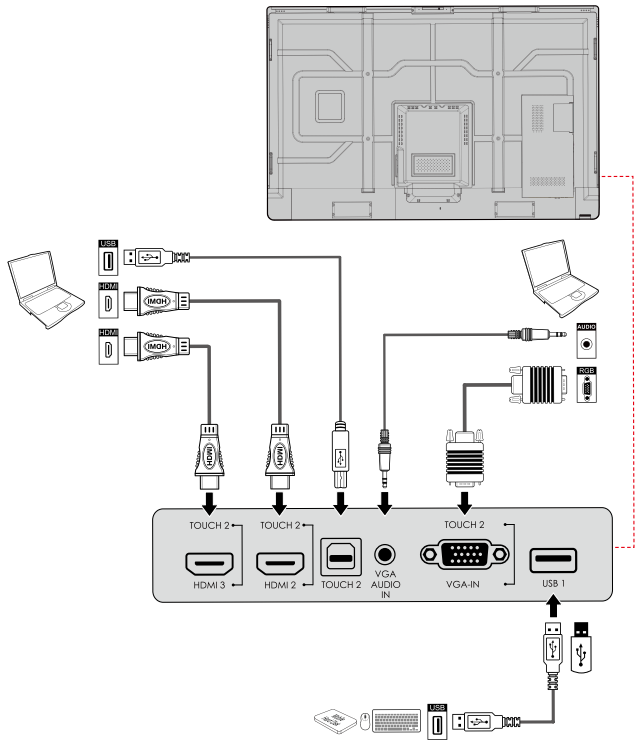
Front USB ports and rear USB 3.0/USB 2.0 ports switch connections based on signal sources. If the current signal source is reading the data from an external product connecting to the port, please switch the signal source after the data reading is complete. Otherwise, the data or product may be damaged.

Front Ports



Name	Function Description
USB 3.0	External USB port.
	The port for touch control signal.
HDMI	The input port for high definition signal, which is used with the “TOUCH” to operate a PC in the way of touch control.
MIC	The port used to connect to the speaker or ear phone.

Rear Ports

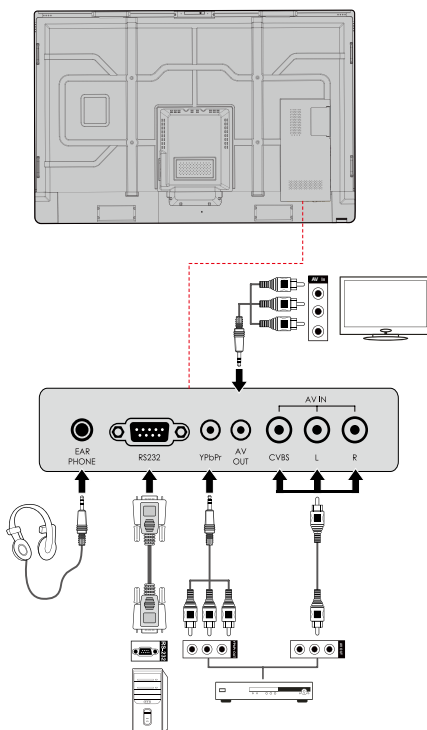


Note

Touch Port 2 corresponds to VGA-IN, HDMI 2 and HDMI 3.

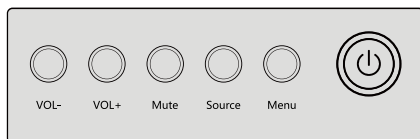
Name	Function Description
HDMI 3	The input port 3 for high definition signal, which is used with the "TOUCH 2" to operate PC in the way of touch control.
HDMI 2	The input port 2 for high definition signal, which is used with the "TOUCH 2" to operate a PC in the way of touch control.
TOUCH 2	The port for touch control signal.
VGA AUDIO IN	The "VGA AUDIO IN" is used with the VGA port for an external PC.
VGA-IN	The VGA port for an external PC, which is used with the "TOUCH 2" to operate the PC in the way of touch control.
USB 1	External multimedia USB port.


Rear Port Panel 2



Name	Function Description
EAR PHONE	The port used to connect to the speaker or ear phone.
RS232	The input port for series signals, which is used by specific control device of serial port to input serial port protocol in order to control the panel.
YPbPr	The component video port, which is used to connect to video devices such as the HD digital signal STB, the satellite receiver, DVD players and other HD displays or TV equipment.
AV OUT	Audio and video output port.
CVBS	An array of audio and video input ports, which are used to input audio and video signal.
L	CVBS: Video input port. L: Left audio input port.
R	R: Right audio input port.

Buttons



Buttons	Operations	Functions
Vol-	Short press	Decrease the sound volume
	Long press for more than 1 second	Decrease the sound volume continuously
Vol+	Short press	Increase the sound volume
	Long press for more than 1 second	Increase the sound volume continuously
Mute	Short press	Mute/Unmute
Source	Short press	Go to the Source page
Menu	Short press	Open the menu
	Short press	Power on/off <ul style="list-style-type: none"> • Steady on red: Powered on, not booted • Steady on white: working state




















Remote Controller









WARNING

To avoid probable faults, please read the following instructions and use the remote controller properly.

- Do not drop or beat the remote controller.
- Do not spill water or other liquid on the remote controller.
- Do not put the remote controller on wet items.
- Do not expose the remote controller under sunlight or put it near overheated source.

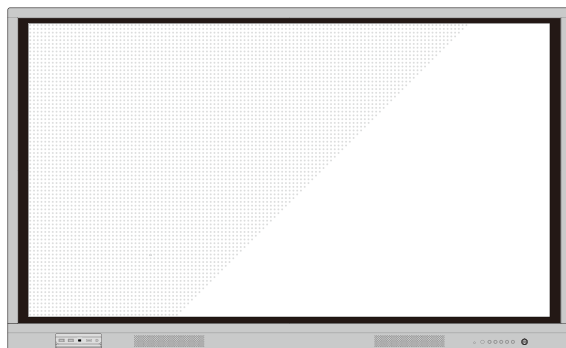
	Power on/standby
	Mute/Unmute
0-9	Enter number
	Enter the function menu
	Quit
	Freeze
	Enable Audio Only mode
	Display or quit signal source menu
	Show current signal status or information
	Confirm selected item
	Up direction button
	Down direction button
	Left direction button
	Right direction button
	Adjust volume
	Reserve button
	Previous media file
	Next media file
	Rewind
	Fast forward

	Play
	Auto adjust displaying (only available for VGA signal source)
	Switch to VGA signal source
	Switch to HDMI 1 signal source
	Switch to Internal PC signal source
	Switch to display mode (Standard – Energy saving)

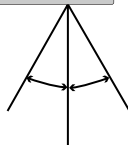


Remote Controller Instructions

The usage scope of the remote controller includes the vertical distance within five meters in front of the product, and the area within an angle of 30 degrees from the vertical point to the left and the right.



The effective receiving area is about 3 meters with 30° angle from vertical point to the left.



The effective receiving area is about 3 meters with 30° angle from vertical point to the right.



The effective receiving distance is about 5 meters from the front of device.

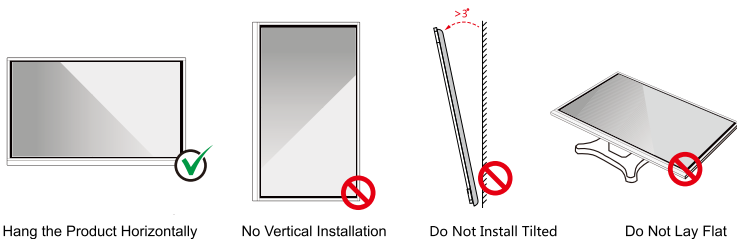
Installation Guide

Safety Precautions

Installation Environment



Installation Direction



Installation Precautions

Weight Loading

Weight of the product: 125.7 lb/57.0 kg (75")

- When using a mobile stand, ensure that the weight of the product is less than the loading capacity of the mobile stand.
- When using the wall-mount bracket, ensure that the wall can support the weight of the product. We recommend that the wall surface be reinforced and have a loading capacity 4 times of the weight of the product. Consult a professional installer for wall-mount installation.

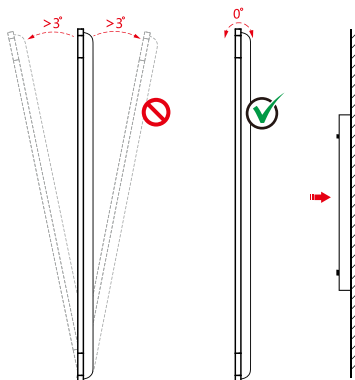
Note

The company does not undertake relevant legal responsibility for any problems caused by improper operation, if the third party mobile stand, or wall-mount bracket is beyond the scope of the product.

- Do not install the product where it might be hit by a door.

Vertical installation

When installing, try to keep the product vertical. The vertical tilt range allowed for wall-mount installation is ± 3 degrees. Excessive tilt angle may cause the screen glass to fall off or the product to collapse.

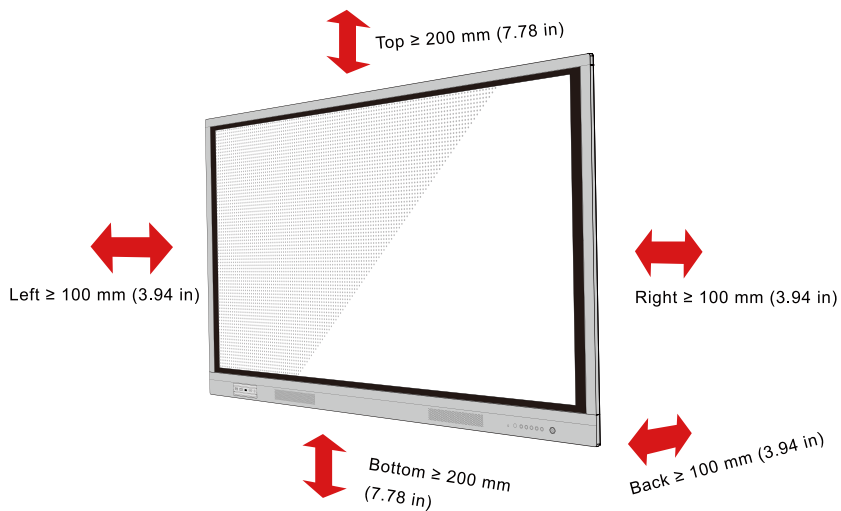


Note

For any problem, please contact our support desk. Our company is not responsible for any damage or losses incurred by users if the users fails to follow the instructions.

Ventilation

Ensure adequate ventilation and/or an air conditioned environment. We recommend keeping certain distances from the side of the product to the wall or panels. Ventilation requirements are shown in following figure:

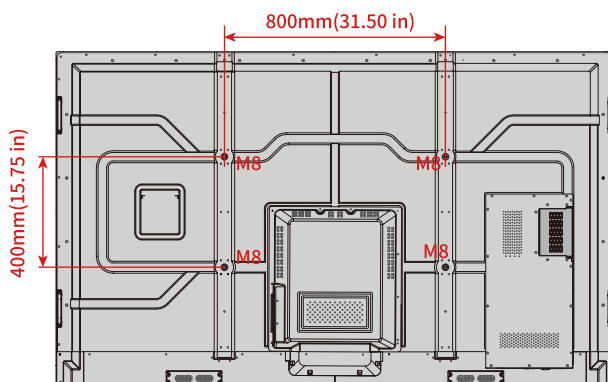


Installation

The dimensions of the four bracket mounting holes on the back panel are VESA MIS-Fcompliant (75": 800 x 400 mm/31.50 x 15.75 in;). Use metric M8 screws with length of 10 mm to 15 mm (0.40 to 0.59 in) to secure the touch screen with the mounting system. Dimensions of themounting holes on the back panel are shown on the following figure.

Note

Consult a professional installer to install the display product.



Installing the Internal PC (Optional)

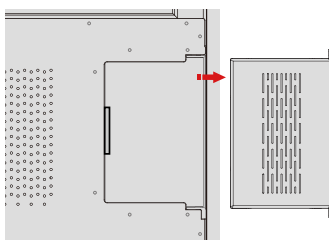


CAUTION

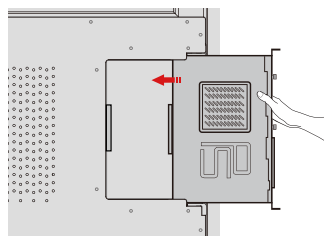
The internal PC does not support hot plugging. Therefore, you must insert or remove it when the screen is powered is off. Otherwise, the screen or internal PC may be damaged.

You will need to purchase the internal PC separately. Perform the following steps to install the internal PC.

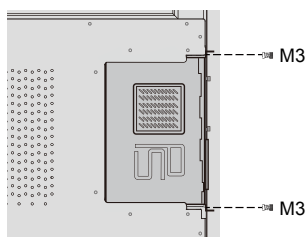
Step 1: Unscrew the M3 screws by hand to remove the internal PC shielding cover.



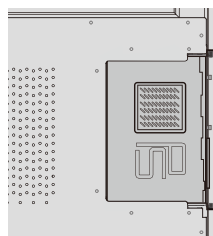
Step 2: Push the internal into the internal PC port at the rear of the screen from right to left.



Step 3: Secure the internal PC to the display by using the M3 screws.



Step 4: Ensure the installation is correct before turning the power on again.



Turning On/Off

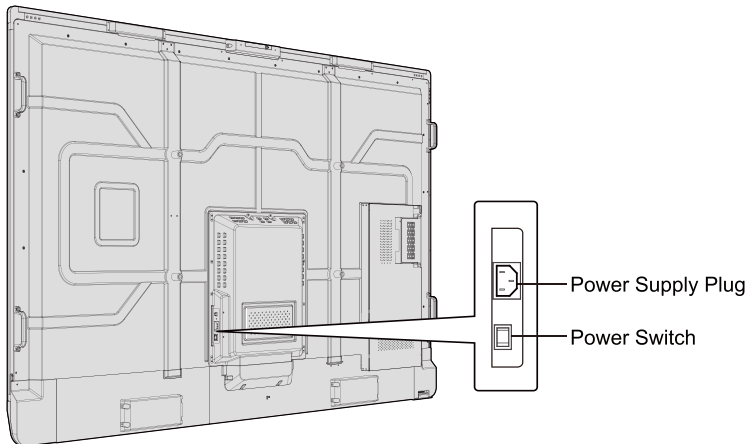
Power On



Step 1: Plug the power supply into the power outlet fully and plug the power connector into the side of the product. Ensure the power supply is in the range of 100V to 240V with frequency at 50 Hz/60 Hz \pm 5%. The power current must be grounded.

Note



The power outlet should be installed near the equipment and should be easily accessible.

Step 2: Flip the power switch located on the side of the product to “On”.



Step 3: Press the power button  on the front control panel or  on the remote control.

Power Off

Step 1: Press the power button  on the front panel or the power button  on the remote control again. the power indicator will turn to red.

Step 2: If you are not going to use the product for an extended period of time, we recommend you to switch the power switch to “Off”.

Note

- If an internal PC is equipped, the internal PC and the screen are powered off simultaneously when you power off the system.
- Do not forcibly disconnect the power supply of the screen when the internal PC is on.

Calibration

If the cursor position has a big deviation from the actual touch point, calibration is used to eliminate the deviation. Calibration is required in the following scenarios:

- The internal PC is used.
- A computer is connected through the HDMI and VGA interface.

Note

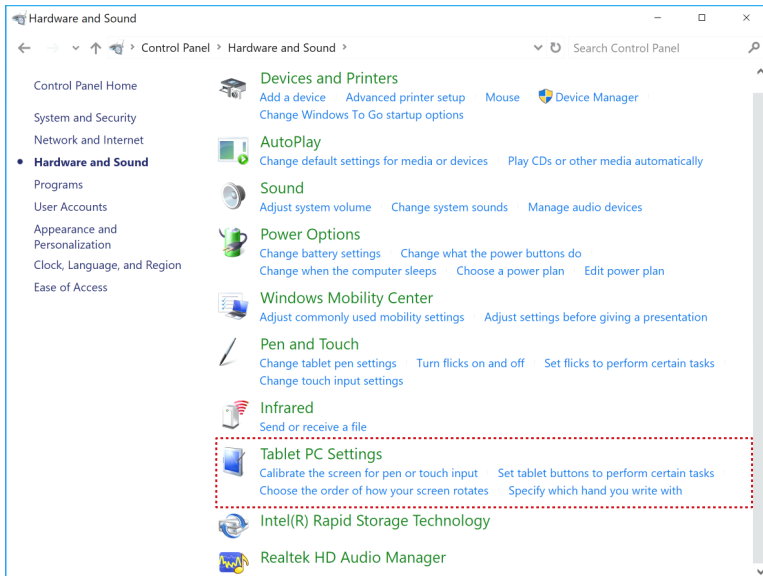
Interface operation on the Smart system does not need positioning. External products with Microsoft Windows 7 or later versions will require positioning.

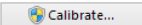
If the positioning is not correct, perform the following operations to calibrate again. The following takes Windows 10 as an example:

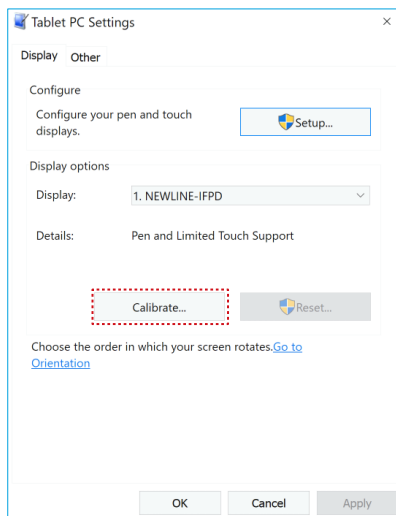
Step 1: Ensure that the HDMI or VGA interface and external products are connected properly.

Step 2: Select the corresponding Windows signal from the signal source menu. The Windows page will be displayed.

Step 3: Select **Tablet PC Settings** on the **Control Panel** page.

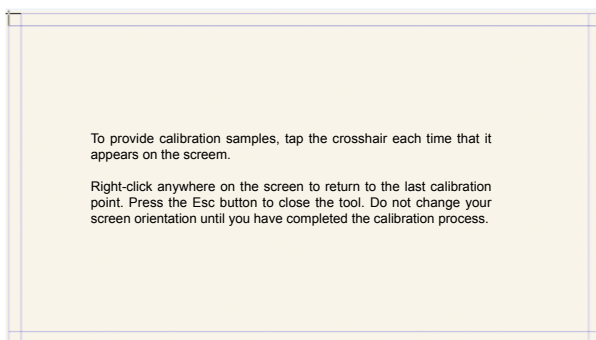


Step 4: Select  in the Tablet PC Settings window.

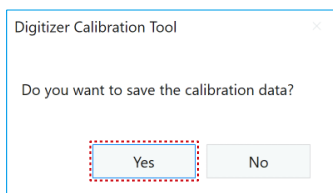


Step 5: Select **Touch input** from the option and start calibration.

Step 6: Use finger or pencil to click and hold the center of the flickering cross + . Do not release until + moves to the next positioning point. Complete the calibration process as instructed.



Step 7: After the calibration is complete, the **Digitizer Calibration Tool** dialog box will be displayed. Click **Yes** to save calibration data.



 **Tip:**

- To ensure writing accuracy, use the pencil or stylus included with the product for proper positioning.
- Positioning errors may cause failure of touch functions of the display. In that case, please perform positioning again.

Step 8: The **Tablet PC Settings** dialog box will be displayed again. Click **OK**. The calibration will be complete.

Menu

After the interactive touch screen is powered on, press **MENU** to enter the user menu setting interface. The menu items include **INPUT SOURCE**, **PICTURE**, **SOUND**, and **OPTION**. By default, the **PICTURE** interface appears.

Use your finger to perform screen touch operation or press ◀/▶/▲/▼ on the remote controller to select a menu item and press **OK** to complete the menu switching and option setting in the menu.

Select Signal Source

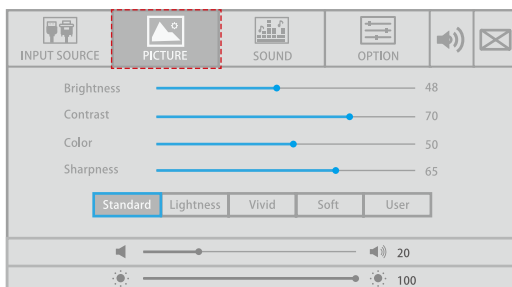
Press **SOURCE** to enter the signal source selection menu.

In the **INPUT SOURCE** interface, you can select the **OPS**, **HDMI**, **DMP**, **VGA**, **Composite** and **YPbPr** source via the remote controller or by touch operation.






Picture Setting

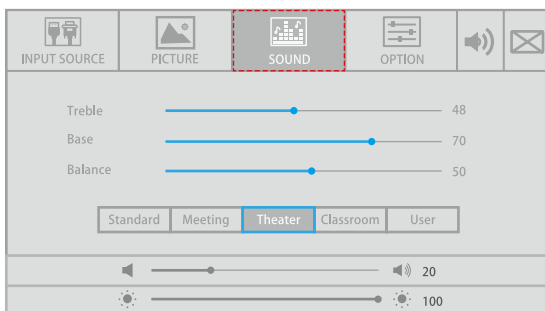
In the **PICTURE** interface, you can select the **Standard**, **Lightness**, **Vivid**, **Soft**, or **User** mode via the remote controller or by touch operation. Only in the **User** mode, you can manually adjust the **Brightness**, **Contrast**, **Color**, and **Sharpness** values. Press **Exit** on the remote controller to exit the setting menu.



Sound Setting

In the **SOUND** interface, you can select the **Standard**, **Meeting**, **Theater**, **Classroom**, or **User** mode for sound setting. Only in the **User** mode, you can manually adjust the **Treble**, **Bass**, and **Balance** values.

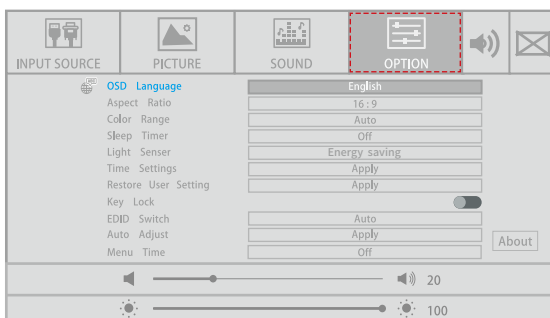
- Drag the sliders on the right sides of  and  to adjust the volume and brightness respectively.
- Click  in the upper right corner of the interface to mute the device. After the mute setting, a mute icon will appear in the upper right corner of the screen.
- Press **Exit** on the remote controller to exit the setting menu.



Option Setting


In the **OPTION** interface, you can set **OSD Language**, **Aspect Ratio**, **Color Range**, **Sleep Timer**, **Light Sensor**, **Time Settings**, **Restore User Setting**, **Key Lock**, **EDID Switch**, **Auto Adjust**, and **Menu Time** options.

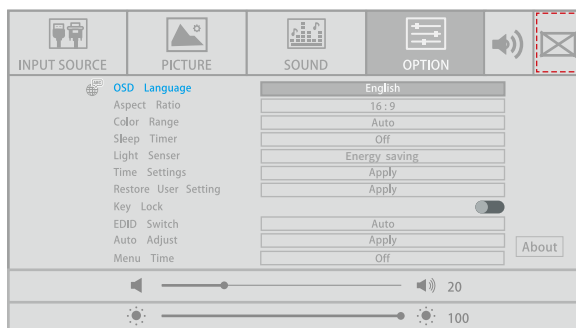
- Directly click an option or press **▲/▼** on the remote controller to switch the option.
- Click an option, and then click **◀/▶** on the sides of the option or press **◀/▶** on the remote controller to set the option value.
- Press **Exit** on the remote controller to exit the setting menu.



Option	Description
OSD Language	Sets the on-screen menu language.
Aspect Ratio	Sets the aspect ratio for the screen display. Options include 16:9, Point-to-point, Panorama, Zoom2, Zoom1, 14:9, 4:3, Auto, and Just Scan.
Color Range	Sets color range. Options include 0-255, 16-235, and auto.
Sleep Timer	Enables or disables the machine sleep function. Options include Off, 5 Mins Backlight OFF, and 240 Mins Power OFF.
Light Sensor	Sets the light sensor mode. Options include Energy saving and Standard.
Time Settings	Sets the date, time, and auto power-on/power-off.
About	Displays the version of the interactive touch screen firmware.
Restore User Setting	Restores the system factory settings.
Key Lock	Enables or disables the key lock function by the remote controller. After this function is enabled, keys on the interactive touch screen cannot be used.
EDID Switch	Sets the EDID version of the interactive touch screen. Options include Auto, EDID 2.0, and EDID 1.4.
Auto Adjust	Sets whether to automatically adjust the image display. Options include Auto Adjust, Horizontal Pos. 50, Vertical Pos. 50, Size 50, and Phase 100.
Menu Time	Sets the menu display time. Options include Off, 5s, and 15s.

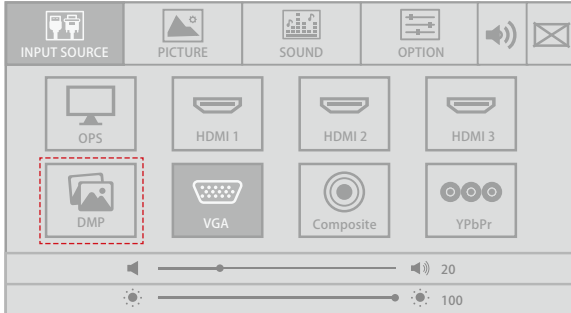
Audio Only Function

Click  on the menu setting interface. The screen turns black. In the audio only mode, the power indicator blinks on red and green alternatively. Click anywhere on the screen to return to the standard screen status (bright screen).



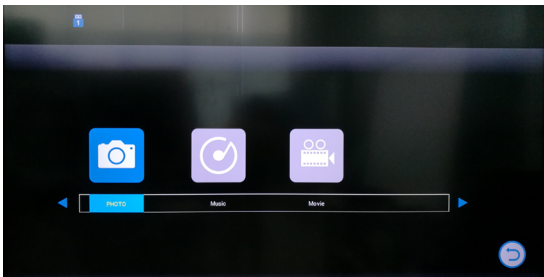
Multi-Media


Press **SOURCE** to enter the signal source selection menu. Press ◀/▶/▲/▼ to switch to **DMP** signal source and press **OK** on the remote controller to enter the single source.



Multi-media File Type

After you enter the multi-media signal source, the interface shows options including **PHOTO**, **Music** and **Movie**.

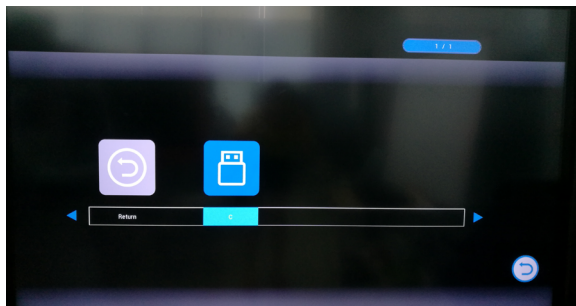



- Press ◀/▶ on the remote controller or screen to select the file type.
- Press **OK** on the remote controller or directly click the icon to enter the USB flash selection interface.
- Press **EXIT** on the remote controller or click  to return to the main menu.

Select USB Flash

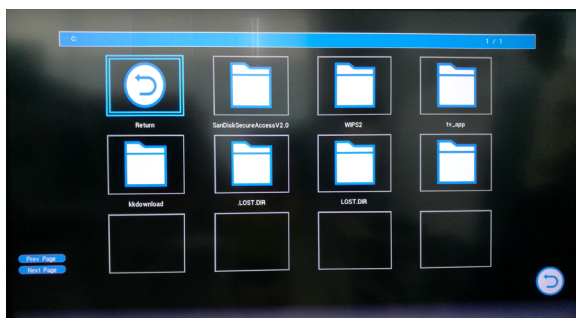
When the interactive touch screen detects an access USB flash, a USB icon will be displayed in the upper left corner of the screen. The number in the icon indicates the number of USB flash connected to this device. See the icon display in the "Multi-media File types" section.


After you click the file type, the USB setting selection interface appears.



- Press ◀/▶ on the remote controller or screen to select the USB flash.
- Press **OK** on the remote controller or directly click the icon to enter the corresponding USB flash.
- Press **EXIT** on the remote controller or click  to return to the preview menu.

Enter USB Flash



- Press **OK** on the remote controller or directly click the folder icon to enter the corresponding folder.
- Click **Prev Page** to go to the previous page or click **Next Page** to go to the next page.
- Press **EXIT** on the remote controller or click  to return to the preview menu.

ECO Mode

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CAUTION

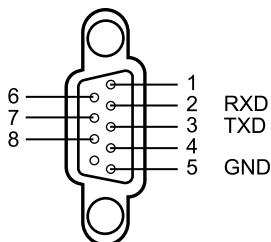
- Please switch off the panel when it is not used and enable the function of Audio Only when you do not need to watch the display, which help reduce power consumption and save energy.
 - On the premise of ensuring viewing effect, the energy consumption can be reduced by lowering display brightness.
 - To better save energy, the automatic power-off function is configured for the interactive touch screen and the default duration is 5 minutes. If no operation is performed in 5 minutes, the interactive touch screen is switched automatically to sleep mode for reducing energy consumption.
-

Press **ECO** on the remote controller to enter the **ECO** mode (**Standard - Energy Saving**). Hold the button to switch between the two modes.

- In the **Energy Saving** mode, the power output is reduced 50%.
- In the **Standard** mode, the screen brightness keeps the same.

Serial Port Control

The RS-232 port of the interactive touch screen is defined as follows:



Connect RS-232 port to the PC or controlling device. Enable RS-233 serial port connection and complete the following configuration.

Port: COM1 (Set according to PC or controlling device's port number)			
Bit rate	38400	Odd/even check	None
Data bits	8	Stop bit	1

The following table lists button controlling codes. The buttons share same functions with corresponding buttons on the remote controller:

Function	Controlling Code	Function	Controlling Code
Power on	7F 08 99 A2 B3 C4 02 FF 01 00 CF	Power off	7F 08 99 A2 B3 C4 02 FF 01 01 CF
Mute/ Unmute	7F 08 99 A2 B3 C4 02 FF 01 02 CF	Sound mode	7F 08 99 A2 B3 C4 02 FF 01 05 CF
Signal source	7F 08 99 A2 B3 C4 02 FF 01 06 CF	HDMI 1	7F 08 99 A2 B3 C4 02 FF 01 0A CF
Display status	7F 08 99 A2 B3 C4 02 FF 01 09 CF	HDMI 3	7F 08 99 A2 B3 C4 02 FF 01 0C CF
HDMI 2	7F 08 99 A2 B3 C4 02 FF 01 0B CF	VGA	7F 08 99 A2 B3 C4 02 FF 01 0D CF
Internal PC	7F 08 99 A2 B3 C4 02 FF 01 38 CF	YPbPr	7F 08 99 A2 B3 C4 02 FF 01 10 CF
AV	7F 08 99 A2 B3 C4 02 FF 01 11 CF	DMP	7F 08 99 A2 B3 C4 02 FF 01 3A CF
Volume+	7F 08 99 A2 B3 C4 02 FF 01 18 CF	Volume-	7F 08 99 A2 B3 C4 02 FF 01 17 CF
Return(quit)	7F 08 99 A2 B3 C4 02 FF 01 1D CF	Menu	7F 08 99 A2 B3 C4 02 FF 01 1B CF

Function	Controlling Code	Function	Controlling Code
1	7F 08 99 A2 B3 C4 02 FF 01 21 CF	Auto ADJ	7F 08 99 A2 B3 C4 02 FF 01 20 CF
3	7F 08 99 A2 B3 C4 02 FF 01 23 CF	2	7F 08 99 A2 B3 C4 02 FF 01 22 CF
5	7F 08 99 A2 B3 C4 02 FF 01 25 CF	4	7F 08 99 A2 B3 C4 02 FF 01 24 CF
7	7F 08 99 A2 B3 C4 02 FF 01 27 CF	6	7F 08 99 A2 B3 C4 02 FF 01 26 CF
9	7F 08 99 A2 B3 C4 02 FF 01 29 CF	8	7F 08 99 A2 B3 C4 02 FF 01 28 CF
OK	7F 08 99 A2 B3 C4 02 FF 01 2B CF	0	7F 08 99 A2 B3 C4 02 FF 01 2A CF
→	7F 08 99 A2 B3 C4 02 FF 01 2D CF	←	7F 08 99 A2 B3 C4 02 FF 01 2C CF
↓	7F 08 99 A2 B3 C4 02 FF 01 2F CF	↑	7F 08 99 A2 B3 C4 02 FF 01 2E CF
Freeze	7F 08 99 A2 B3 C4 02 FF 01 3B CF	Switch backlight	7F 08 99 A2 B3 C4 02 FF 01 15 CF
Increase backlight brightness	7F 08 99 A2 B3 C4 02 FF 01 47 CF	Set display mode	7F 08 99 A2 B3 C4 02 FF 06 XX CF Note: XX indicates the mode. 00 and 01 indicate standard and ECO modes respectively.
Decrease backlight brightness	7F 08 99 A2 B3 C4 02 FF 01 48 CF	Set sound mode	7F 08 99 A2 B3 C4 02 FF 03 xx CF Note: 00 = Standard 01 = Meeting 02 = Theater 03 = Classroom 04 = User

Specifications of PC Mode (VGA Input)

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SN	Standard	Resolution	Pixel Clock (MHz)	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Horizontal/ Vertical Sync Polarity (TTL)
1	VESA	1024x768	65.00	48.363	60.004	N/N
2	VESA	1080x720	74.25	45	60	N/P
3	VESA	1280x960	108	60	60	N/P
4	VESA	1280x1024	108	63.981	60.020	P/P
5	VESA	1360x768	85.50	47.712	60.015	P/P
6	VESA	1440x900	88.75	55.469	59.901	P/P
7	VESA	1600x1200	162.00	75	60	P/P
8	VESA	1680x1050	119.00	64.674	59.883	P/P
9	VESA	1920x1080	154	74	60	P/P

Formats Supported by Multi-media

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Media category	Formats
Photo	Progressive JPEG, Baseline JPEG, Non-Interlaced, Interlaced
Movie	MPEG1, MPEG2, MPEG4, H.264, HEVC, VC1
Music	WMA, MP3, AAC, M4A, AC-3
Text	TXT

FAQ & Troubleshooting

Before you contact the technical support staff, please identify a fault according to the following table. If the fault cannot be restored based on the solutions, contact the local distributor for help. For your safety, please do not repair the product by your own.

Failure	Possible Cause	Solution
The service program fails to be connected.	The drive program is not correctly installed.	Install the drive program correctly.
	The USB port (lead) is not connected or is faulty.	Change the USB lead or check if the USB port is faulty.
	The infrared tube is blocked.	Ensure that the surrounding infrared tubes are not blocked.
Repositioning is required every time the panel is switched on.	The computer is equipped with a recovery card.	Disable computer protection and perform the positioning again.
The calibration is inaccurate.	The positioning is not performed properly.	Press AUTO on the remote controller to show the full screen, and use the pen provided with the panel to perform positioning again.
Not sound and image.	<ul style="list-style-type: none"> • Check whether the power plug is inserted into the power outlet and whether the panel is powered on. • Check whether the rocker switch on the interactive touch screen is switched on. • Check whether the power button on the panel is pressed. • Check whether the video and audio input cables are connected correctly. • Check whether the panel is switched to the right signal source. • Check the settings on image brightness and contrast. • Check the volume. 	
Image is normal, but no sound.	<ul style="list-style-type: none"> • Check the volume. • Check whether the MUTE button on the remote controller is pressed. • Check whether the audio cable between the PC and interactive touch screen is connected correctly. 	
No image or the image is black and white.	<ul style="list-style-type: none"> • Modify the color settings. • Check the color system. 	

Symptom	Possible Cause	Solution
Image or sound is interrupted.	<ul style="list-style-type: none"> Find out the electric appliance that causes the interference and move it away from the interactive touch screen. Do not share the power socket of the panel with the electric appliance that causes interference. 	
The remote controller fails.	<ul style="list-style-type: none"> Change the batteries. Clean the signal emitter at the top of the remote controller. (Check whether it is blocked.) Check contacts of the batteries. 	
Computer cannot be started (applicable for models with computers).	<ul style="list-style-type: none"> Check whether the PC adapter is correctly connected and whether the PC is powered on. Check whether the PC is connected correctly to the interactive touch screen. 	

The following symptoms are not faults:

- A very few of constantly bright or dark pixels, such as tiny red, blue, green or dark points, may exist on the LED. This symptom is not a fault and does not affect running functions of the panel.
- Slight sound may occur due to the backlight adjustment or ventilation. This is a normal symptom.
- The image and sound are normal. However, you can sense static electricity when you touch the LED and metal back cover. This is a normal symptom.

Maintenance Tips

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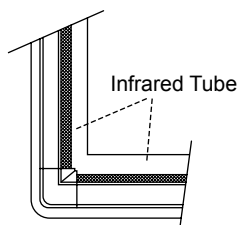
- Do not put or install the product near a heat source or under direct sunlight, or in dusty or humid places, or somewhere the product may be hit or damaged by mechanical vibration. To maximize the performance, it needs to be put away from equipment such as grid, large metal objects and radar stations as far as possible.
- Do not wipe the panel with any chemical reagent. Solvents may damage the enclosure or paint. If the panel is stained by dust, cut off the power and then clean the panel using a dried cloth with a little of warm water. Use a clean soft cloth to clean the LED of the panel.
- Do not frequently switch on and off the product, which may shorten the product service life. After the panel is switched off, wait for three minutes before switching it on again. If the product is not to be used for a long period, please power off the product and pull out the power plug.
- Do not maximize the brightness and contrast of the LED for a long period of time, which may shorten the LED service life.
- Do not use a hard object to write on the interactive touch screen, which may scratch the LED.

Clean the Infrared Tube

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The interactive touch screen uses the horizontal and vertical infrared matrix to detect and locate the user's touch. The screen is surrounded by an infrared tube (including the infrared acceptor and emitter), which forms an infrared net covering on the screen surface. When a user touches the screen, fingers or other opaque objects block the infrared rays that cross the touch point, which helps the controller detect the coordinate position of the touch point.

Dust is easily retained on the screen surface due to its long-term exposure in the air and causes ineffective touch or inaccurate positioning. Therefore, you need to clean the infrared tube around the screen regularly.



Technical Parameters

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Specification	Parameter
Backlight type	LED
Size	1770mmx1071mmx109mm
Aspect ratio	16:9
Viewing angle	178°
Physical resolution	3840 × 2160 Pixel
Display color	10bit(D), 1.07Billion colors
Display contrast	4000:1
Working voltage	100 - 240V, 50/60Hz
Standby power consumption	≤ 0.5W
Rated power	≤ 300W
Energy-saving power (without internal PC)	≤ 150W
Audio output	Loudspeaker power output 15W × 2
Touch screen material	Tempered glass
Sensing method	Infrared
Technical feature	HID drive-free
Touch point	20 points
Resolution of touch screen	32768 × 32768
Communication interface	USB
Storage temperature/humidity	-20°C - 60°C, 20%RH - 90%RH (no condensation)
Working temperature/humidity	0°C - 40°C, 20%RH - 80%RH (no condensation)
Installation method	Wall-mounted or moveable
Net weight	57kg ± 1kg
Gross weight	74kg ± 1kg

More Information

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For More Information

Please visit our website (www.newline-interactive.com) for detailed instruction manual.

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